Pflügers Archiv
European Journal of Physiology

Vol. 408 1987

Field Editors

J. A. Bernards, Nijmegen
J. P. Bonjour, Geneva
A. J. Brady, Los Angeles, CA
G. ten Bruggencate, München
E. E. Carmeliet, Leuven
R. Casteels, Leuven
P. Cerretelli, Geneva
C. de Rouffignac, Gif-sur-Yvette
J.-M. Dubois, Orsay
B. R. Duling, Charlottesville, VA
J. Durand, Paris
E. Frömter, Frankfurt (Main)
W. Hasselbach, Heidelberg
K. Hierholzer, Berlin
M. Imai, Osaka
C. Jessen, Giessen
F. Kreuzer, Nijmegen
H. Kuriyama, Fukuoka
H. Murer, Zürich
O. H. Petersen, Liverpool
J. Piiper, Göttingen
R. S. Reneman, Maastricht
H. Seller, Heidelberg
H. Shimazu, Tokyo
E. Simon, Bad Nauheim
S. Thesleff, Lund
W. Trautwein, Homburg (Saar)
W. Ulbricht, Kiel
K. J. Ullrich, Frankfurt (Main)
J. A. Young, Sydney
E. M. Wright, Los Angeles, CA
W. G. Zijlstra, Groningen

Subject Editors

E. Gerlach, München
P. Deetjen, Innsbruck
O. Pompeiano, Pisa

Coordinating Editor

K. Thurau, München

Springer International

Pflügers Archiv · European Journal of Physiology

Founded in 1868 as „Pflügers Archiv für die gesamte Physiologie des Menschen und der Tiere" by *E. F. W. Pflüger.* Edited by *M. Verworn, E. Abderhalden, A. Bethe, R. Höber, A. v. Muralt, H. Rein* et al.

Published: Vol. 1–29 (1876) Cohen und Sohn, Bonn; Vol. 30–92 (1901) E. Strauß, Bonn; Vol. 93–170 (1917) M. Hager, Bonn; since Vol. 171 (1918) Springer, Berlin.

Since 1920 Pflügers Archiv has included: „Archiv für Physiologie" (Archiv für Anatomie und Physiologie, Physiologische Abteilung). Founded and edited by Johannes Müller, E. du Bois-Reymond, W. v. Waldeyer-Hartz et al. 1877–1914. Veit und Co., Leipzig, since 1915, Vereinigung Wissenschaftlicher Verleger, afterwards Walter de Gruyter, Berlin.

Copyright

Submission of a manuscript implies: that the work described has not been published before (except in the form of an abstract or as part of a published lecture, review, or thesis); that it is not under consideration for publication elsewhere; that its publication has been approved by all coauthors, if any, as well as by the responsible authorities at the institute where the work has been carried out; that, if and when the manuscript is accepted for publication, the authors agree to automatic transfer of the copyright to the publisher; and that the manuscript will not be published elsewhere in any language without the consent of the copyright holders.

All articles published in this journal are protected by copyright, which covers the exclusive rights to reproduce and distribute the article (e.g., as offprints), as well as all translation rights. No material published in this journal may be reproduced photographically or stored on microfilm, in electronic data bases, video disks, etc., without first obtaining written permission from the publisher.

The use of general descriptive names, trade names, trademarks, etc., in this publication, even if not specifically identified, does not imply that these names are not protected by the relevant laws and regulations.

While the advice and information in this journal is believed to be true and accurate at the date of its going to press, neither the authors, the editors, nor the publisher can accept any legal responsibility for any errors or omissions that may be made. The publisher makes no warranty, express or implied, with respect to the material contained herein.

Special regulations for photocopies in the USA

Photocopies may be made for personal or in-house use beyond the limitations stipulated under Section 107 or 108 of U.S. Copyright Law, provided a fee is paid. This fee is US$ 0.20 per page, or a minimum of US$ 1.00 if an article contains fewer than five pages. All fees should be paid to the Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970, USA, stating the ISSN 0302-8933, the volume, and the first and last page numbers of each article copied. The copyright owner's consent does not include copying for general distribution, promotion, new works, or resale. In these cases, specific written permission must first be obtained from the publisher.

Springer-Verlag Berlin Heidelberg New York

Printers: Wiesbadener Graphische Betriebe GmbH, Wiesbaden

© Springer-Verlag GmbH & Co. KG, Berlin Heidelberg 1987

Printed in Germany

Contents of volume 408

This volume contains a supplement with the Abstracts of the 64th Meeting (Spring Meeting) of the Deutsche Physiologische Gesellschaft R1–R90

No. 1 (pp 1–82) published January 2, 1987
No. 2 (pp 83–208 S1–S36) published February 6, 1987
No. 3 (pp 209–320, S37–S54) published March 2, 1987
No. 4 (pp 321–422) published April 1, 1987
No. 5 (pp 423–542) published May 4, 1987
No. 6 (pp 543–650) published May 11, 1987

Amobi NIB, Smith ICH: A study of the posttetanic twitch depression at the prostatic end of the rat vas deferens 628
Anagnostopoulos T → Planelles G 531

Baddouri K → Doucet A et al 129
Bærentsen JH → Zeuthen T et al 260
Banks D, Harris MC: Activation within dorsal medullary nuclei following stimulation in the hypothalamic paraventricular nucleus in rats 619
Barac-Nieto M: D(−)3-Hydroxybutyrate cotransport with Na in rat renal brush border membrane vesicles 321
Barlet C → Doucet A et al 129
Beyenbach KW → Gitter AH et al 282
Biehler KH → Clauss W et al 592
Bijman J, Englert HC, Lang HJ, Greger R, Frömter E: Characterization of human sweat duct chloride conductance by chloride channel blockers 511
Bijman J, Quinton P: Permeability properties of cell membranes and tight junctions of normal and cystic fibrosis sweat ducts 505
Bindels RJM, Broek LAM van den, Jongen MJM, Hackeng WHL, Löwik CWGM, Os CH van: Increased plasma calcitonin levels in young spontaneously hypertensive rats: role in disturbed phosphate homeostasis 395
Bonvallet R: A low threshold calcium current recorded at physiological Ca concentrations in single frog atrial cells 540
Breemen C van → Hwang KS 343
Briggs M → Copelas L et al 315
Broek LAM van den → Bindels RJM et al 395
Busselen P: Effects of sodium on the calcium paradox in rat hearts 458
Butler D → Chabardès D et al 366
Butler D, Mistaoui M, Morel F: Atrial natriuretic peptide receptors along the rat and rabbit nephrons: [^{125}I]α-rat atrial natriuretic peptide binding in microdissected glomeruli and tubules 356

Carbone E, Prestipino G, Spadavecchia L, Franciolini F, Possani LD: Blocking of the squid axon K^+ channel by noxiustoxin: a toxin from the venom of the scorpion *Centruroides noxius* 423
Carlsen RC, Walsh DA: Decrease in force potentiation and appearance of α-adrenergic mediated contracture in aging rat skeletal muscle 224
Carmeliet E: Slow inactivation of the sodium current in rabbit cardiac Purkinje fibres 18
Casavola V, Iacovelli L, Svelto M: Phorbol ester effect on the hydrosmotic response to vasopression in frog skin 318
Case RM → Howorth AJ et al 209
Casteels R → Himpens B 32
Ceccarelli B → Haimann C et al 27
Chabardès D, Montégut M, Mistaoui M, Butler D, Morel F: Atrial natriuretic peptide effects on cGMP and cAMP contents in microdissected glomeruli and segments of the rat and rabbit nephrons 366
Chen P-Y, Verkman AS: Non-electrolyte transport across renal proximal tubule cell membranes measured by tracer efflux and light scattering 491
Cherksey B → Zeuthen T et al 275
Christensen O → Zeuthen T et al 260, 275
Christensen O, Zeuthen T: Maxi K^+ channels in leaky epithelia are regulated by intracellular Ca^{2+}, pH and membrane potential 249
Christine CW → Gitter AH et al 282
Clauss W, Biehler KH, Schäfer H, Wills NK: Ion transport and electrophysiology of the early proximal colon of rabbit 592
Cook DI → Pirani D et al 178
Copelas L, Briggs M, Grossman W, Morgan JP: A method for recording isometric tension development by isolated cardiac myocytes: transducer attachment with fibrin glue 315
Cour M la → Zeuthen T et al 260
Crabtree JH → Heath ME 73
Cullinan M → Harris PJ et al 615
Curci S, Debellis L, Frömter E: Evidence for rheogenic sodium bicarbonate cotransport in the basolateral membrane of oxyntic cells of frog gastric fundus 497
Curtin NA: Intracellular pH and buffer power of type 1 and 2 fibres from skeletal muscle of *Xenopus laevis* 386

Dandona P → Jeremy JY et al 68
Debellis L → Curci S et al 497
De Geest H → Minten J et al 160
Delarge J → Wittner M et al 54
Dembski J → Meyer R et al 390
Diegenbach PC → Stienen GJM et al 63
Dietl P → Wang W et al 291
Dietl P → Weigt M et al 609
Di Stefano A → Wittner M et al 54
Doležal V → Tuček S et al 167
Donovan E → Javaheri S et al 642
Doucet A, Barlet C, Baddouri K: Effect of water intake on Na-K-ATPase in nephron segments of the desert rodent, *Jaculus orientalis* 129
Dudel J → Franke C 300
Dudel J, Franke C: Single glutamate-gated synaptic channels at the crayfish neuromuscular junction. II. Dependence of channel open time on glutamate concentration 307

Elzinga G → Stienen GJM et al 63
Eng SP, Lo CS: Effect of triiodothyronine on system A amino acid transport in cells of rat submandibular gland 519
Englert HC → Bijman J et al 511
Esposito G → Marciani P et al 220
Evans LAR → Pirani D et al 178

Faelli A → Marciani P et al 220
Ferrer R → Planas JM et al 515
Flonta M-L, Galter D, Frangopol PT, Mărgineanu D-G: Procaine has opposite effects on passive Na and K permeabilities in frog skin 215
Folbergrová J → Tuček S et al 167
Franciolini F → Carbone E et al 423
Frangopol PT → Flonta M-L et al 215
Franke C → Dudel J 307

Franke C, Dudel J: Single-glutamate-gated synaptic channels at the crayfish neuromuscular junction. I. The effect of enzyme treatment 300
Friedrich F → Paulmichl M et al 408
Fritzsch G → Ullrich KJ et al 38
Frömter E → Bijman J et al 511
Frömter E → Curci S et al 497
Frömter E → Gitter AH et al 282
Fromm M, Hegel U: Net ion fluxes and zero flux limiting concentrations in rat upper colon and rectum during anaesthesia-induced aldosterone liberation 185

Gärtner B → Kiwull-Schöne H et al 451
Gallo Jr L → Maciel BC et al 173
Galter D → Flonta M-L et al 215
Garcia J, Stefani E: Appropriate conditions to record activation of fast Ca^{2+} channels in frog skeletal muscle (*Rana pipiens*) 646
Gitter AH, Beyenbach KW, Christine CW, Gross P, Minuth WW, Frömter E: High-conductance K^+ channel in apical membranes of principal cells cultured from rabbit renal cortical collecting duct anlagen 282
Gitter AH, Theis J: A low-cost voltage stepper device for use in patch-clamp experiments 194
Gohlsch B → Staron RS et al 444
Greger R → Bijman J et al 511
Greger R → Wittner M et al 54
Gross P → Gitter AH et al 282
Grossman W → Copelas L et al 315
Gstrein E, Paulmichl M, Lang F: Electrical properties of Ehrlich ascites tumor cells 432
Güth K → Kawai M et al 1

Haas HG → Meyer R et al 390
Hackeng WHL → Bindels RJM et al 395
Haimann C, Meldolesi J, Ceccarelli B: The phorbol ester, 12-O-tetradecanoyl-phorbol-13-acetate, enhances the evoked quanta release of acetylcholine at the frog neuromuscular junction 27
Haist C → Kawai M et al 1
Harder DR → Smeda JS et al 239
Harris MC → Banks D 619
Harris PJ, Cullinan M, Thomas D, Morgan TO: Digital image capture and analysis for split-drop micropuncture 615
Heath ME, Crabtree JH: Effects of selective cutaneous denervation on hypothalamic thermosensitivity in rats 73
Hegel U → Fromm M 185
Heinle H → Lindner V 204
Hie HB, Nie CJ van, Vermeulen-van der Zee E: Effect of endurance exercise on fibre type composition and muscle weight of reinnervating rat plantaris muscle 333
Hierholzer K → Kobayashi N et al 46
Himpens B, Casteels R: Measurement by Quin2 of changes of the intracellular calcium concentration in strips of the rabbit ear artery and of the guinea-pig ileum 32
Hirano T, Kidokoro Y, Ohmori H: Acetylcholine dose-response relation and the effect of cesium ions in the rat adrenal chromaffin cell under voltage clamp 401
Holstein-Rathlou N-H: Synchronization of proximal intratubular pressure oscillations: evidence for interaction between nephrons 438
Hoshi T → Matsunaga H et al 351
Howorth AJ, Case RM, Steward MC: Effects of acetylcholine and forskolin on the non-electrolyte permeability of the perfused rabbit mandibular gland 209
Hwang KS, Breemen C van: Ryanodine modulation of ^{45}Ca efflux and tension in rabbit aortic smooth muscle 343
Hynie S → Tuček S et al 167

Iacovelli L → Casavola V et al 318
Imai M → Kondo Y 479
Imai M → Kondo Y 484
Imai M → Yoshitomi K et al 600
Ivanova LN, Solyenov EI, Zelenina MN, Khegay II: Decrease in the response to ADH of the rat kidney as a result of early postnatal treatment with cortisol 328

Javaheri S, Vinegar A, Smith J, Donovan E: Use of a modified Swan-Ganz pacing catheter for measuring P_{di} and diaphragmatic EMG 642
Jeremy JY, Thompson CS, Dandona P: Differential regional changes of prostacyclin and thromboxane A_2 synthesis in the intestinal tract of the fasted and semistarved rat 68
Jongen MJM → Bindels RJM et al 395

Kaminaga T → Matsumura K et al 120
Kamm KE: Myosin light chain phosphorylation during phasic contractions of tracheal smooth muscle 474
Kasuya Y → Nakazawa K et al 112
Kato C → Saeki Y et al 578
Kawai M, Güth K, Winnikes K, Haist C, Rüegg JC: The effect of inorganic phosphate on the ATP hydrolysis rate and the tension transients in chemically skinned rabbit psoas fibers 1
Khegay II → Ivanova LN et al 328
Kidokoro Y → Hirano T et al 401
Kitamura K → Ohya Y et al 80, 465
Kitamura K → Terada K et al 552, 558
Kitamura K → Yamanaka K et al 10
Kiwull P → Kiwull-Schöne H et al 451
Kiwull-Schöne H, Gärtner B, Kiwull P: The effects of CO_2 and fixed acid on the O_2-Hb affinity of rabbit and cat blood 451
Klöss S → Ullrich KJ et al 38
Kobayashi N, Schulz W, Hierholzer K: Corticosteroid metabolism in rat kidney in vitro. IV. Subcellular sites of 11β-hydroxysteroid dehydrogenase activity 46
Koehler W → Windhorst U et al 196
Kojima I → Matsunaga H et al 351
Kolář F → Tuček S et al 167
Kolb H-A, Paulmichl M, Lang F: Epinephrine activates outward rectifying K channel in Madin-Darby canine kidney cells 584
Kondo Y, Imai M: Effect of glutaraldehyde on renal tubular function. II. Selective inhibition of Cl^- transport in the hamster thin ascending limb of Henle's loop 484
Kondo Y, Imai M: Effects of glutaraldehyde fixation on renal tubular function. I. Preservation of vasopressin-stimulated water and urea pathways in rat papillary collecting duct 479
Koseki C → Yoshitomi K et al 600
Kovanen V, Suominen H: Effects of age and life-time physical training on fibre composition of slow and fast skeletal muscle in rats 543
Kuba K → Kumamoto E 573
Kumamoto E, Kuba K: Mechanisms regulating the adrenaline-induced long-term potentiation in bullfrog sympathetic ganglia 573
Kumazawa T → Mizumura K et al 565
Kuriyama H → Ohya Y et al 465
Kuriyama H → Ohya Y et al 80
Kuriyama H → Terada K et al 552, 558
Kuriyama H → Yamanaka K et al 10

Laarse WJ van der → Stienen GJM et al 63
Lang F → Gstrein E et al 432
Lang F → Kolb H-A et al 584
Lang F → Paulmichl M et al 408
Lang HJ → Bijman J et al 511
Ledsome JR → Rankin AJ et al 124
Léoty C, Noireaud J: Effects of external cations and calcium-channel blockers on depolarization-contraction coupling in denervated rat twitch skeletal muscles 146

Léoty C, Noireaud J: Membrane Ca^{2+} interactions and contraction in denervated rat soleus muscle 153
Liegeois JF → Wittner M et al 54
Lindi C → Marciani P et al 220
Lindner V, Heinle H: Does the xanthine-xanthine oxidase system alter contractile behaviour of vascular smooth muscle? 204
Lo CS → Eng SP 519
Löwik CWGM → Bindels RJM et al 395
Lombard JH → Smeda JS et al 239
Lux HD → Streit J 634

MacDermott M: The intracellular sodium contraction and activity and the extracellular space in isolated frog sartorii 420
Maciel BC, Gallo Jr L, Marin Neto JA, Martins LEB: Autonomic nervous control of the heart rate during isometric exercise in normal man 173
Madden JA → Smeda JS et al 239
Maier A, Pette D: The time course of glycogen depletion in single fibers of chronically stimulated rabbit fast-twitch muscle 338
Marciani P, Lindi C, Faelli A, Esposito G: Effects of semistarvation on transintestinal D-glucose transport and D-glucose uptake in brush border and basolateral membranes of rat enterocytes 220
Mărgineanu D-G → Flonta M-L et al 215
Marin Neto JA → Maciel BC et al 173
Martins LEB → Maciel BC et al 173
Maruyama Y → Matsunaga H et al 351
Marx A, Ruppersberg JP, Rüdel R: Dependence of the electrogenic pump current of Xenopus oocytes on external potassium 537
Matsuki N → Nakazawa K et al 112
Matsumura K, Nakayama T, Kaminaga T: Effects of carbon dioxide on preoptic thermosensitive neurons in vitro 120
Matsunaga H, Maruyama Y, Kojima I, Hoshi T: Transient Ca^{2+}-channel current characterized by a low-threshold voltage in zona glomerulosa cells of rat adrenal cortex 351
Meldolesi J → Haimann C et al 27
Meyer R, Wiemer J, Dembski J, Haas HG: Photoelectric recording of mechanical responses of cardiac myocytes 390
Midelfart A: The effects of amiloride, ouabain and osmolality on sodium transport across bovine cornea 243
Minten J, Van de Werf F, De Geest H: Geometrical variations of the canine superior vena cava: relationship between diameter, segment length and transmural venous pressure 160
Minuth WW → Gitter AH et al 282
Mistaoui M → Butlen D et al 356
Mistaoui M → Chabardès D et al 366
Mizumura K, Sato J, Kumazawa T: Effects of prostaglandins and other putative chemical intermediaries on the activity of canine testicular polymodal receptors studied in vitro 565
Montégut M → Chabardès D et al 366
Morel F → Butlen D et al 456
Morel F → Chabardès D et al 366
Moreland RS → Moreland S et al 139
Moreland S, Moreland RS, Singer HA: Apparent dissociation between myosin light chain phosphorylation and maximal velocity of shortening in KCl depolarized swine carotid artery: effect of temperature and KCl concentration 139
Moretó M → Planas JM et al 515
Morgan JP → Copelas L et al 315
Morgan TO → Harris PJ et al 615
Morimoto A, Nakamori T, Watanabe T, Sakata Y, Murakami N: Suppression of antipyretic response in rabbits by intraventricular protein synthesis inhibitor, anisomycin 414
Murakami N → Morimoto A et al 414

Nakamori T → Morimoto A et al 414
Nakayama T → Matsumura K et al 120
Nakazawa K, Matsuki N, Shigenobu K, Kasuya Y: Contractile response and electrophysiological properties in enzymatically dispersed smooth muscle cells of rat vas deferens 112
Neumann F-J, Schmid-Schönbein H, Ohlenbusch H: Temperature-dependence of red cell aggregation 524
Nie CJ van → Hie HB et al 333
Nishi S → Yoshimura M et al 207
Noireaud J → Léoty C 146
Noireaud J → Léoty C 153

Oberleithner H → Wang W et al 291
Oberleithner H → Weigt M et al 609
Ohlenbusch H → Neumann F-J et al 524
Ohmori H → Hirano T et al 401
Ohno-Shosaku T, Zünkler BJ, Trube G: Dual effects of ATP on K^+ currents of mouse pancreatic β-cells 133
Ohya Y, Kitamura K, Kuriyama H: Modulation of ionic currents in smooth muscle balls of the rabbit intestine by intracellularly perfused ATP and cyclic AMP 465
Ohya Y, Terada K, Kitamura K, Kuriyama H: D600 blocks the Ca^{2+} channel from the outer surface of smooth muscle cell membrane of the rabbit intestine and portal vein 80
Os CH van → Bindels RJM et al 395
Oštádal B → Tuček S et al 167

Paulmichl M → Gstrein E et al 432
Paulmichl M → Kolb H-A et al 584
Paulmichl M, Friedrich F, Lang F: Effects of bradykinin on electrical properties of Madin-Darby canine kidney epithelioid cells 408
Peiper U, Zobel K: Barium ions reduce contraction kinetics in rat tracheal smooth muscle 373
Peracchia C: Calmodulin-like proteins and communicating junctions. Electrical uncoupling of crayfish septate axons is inhibited by the calmodulin inhibitor W7 and is not affected by cyclic nucleotides 379
Pette D → Maier A 338
Pette D → Staron RS et al 444
Pirani D, Evans LAR, Cook DI, Young JA: Intracellular pH in the rat mandibular salivary gland: the role of Na-H and Cl-HCO_3 antiports in secretion 178
Planas JM, Ferrer R, Moretó M: Relation between α-methyl-D-glucoside influx and brush border surface area in enterocytes from chicken cecum and jejunum 515
Planelles G, Anagnostopoulos T: Effects of membrane potential changes on electrical cell-to-cell coupling in proximal tubule 531
Polosa C → Yoshimura M et al 207
Possani LD → Carbone E et al 423
Prestipino G → Carbone E et al 423

Quinton P → Bijman J 505

Rankin AJ, Wilson N, Ledsome JR: Influence of isoproterenol on plasma immunoreactive atrial natriuretic peptide and plasma vasopressin in the anesthetized rabbit 124
Reuhl T → Siemen D 534
Rüdel R → Marx A et al 537
Rüegg JC → Kawai M et al 1
Rumrich G → Ullrich KJ et al 38
Ruppersberg JP → Marx A et al 537

Saeki Y, Kato C, Totsuka T, Yanagisawa K: Mechanical properties and ATPase activity in glycerinated cardiac muscle of hyperthyroid rabbit 578
Sakata Y → Morimoto A et al 414
Sato J → Mizumura K et al 565
Schäfer H → Clauss W et al 592
Schmid-Schönbein H → Neumann F-J et al 524
Schulz W → Kobayashi N et al 46
Schwarz C → Windhorst U et al 196

Sepúlveda FV, Smith SM: Calcium transport by permeabilised rabbit small intestinal epithelial cells 231
Shigenobu K → Nakazawa K et al 112
Siemen D, Reuhl T: Non-selective cationic channel in primary cultured cells of brown adipose tissue 534
Silbernagl S → Weigt M et al 609
Singer HA → Moreland S et al 139
Singer JJ → Walsh Jr JV 83
Singer JJ, Walsh Jr JV: Characterization of calcium-activated potassium channels in single smooth muscle cells using the patch-clamp technique 98
Smeda JS, Lombard JH, Madden JA, Harder DR: The effect of alkaline pH and transmural pressure on arterial constriction and membrane potential of hypertensive cerebral arteries 239
Smith ICH → Amobi NIB 628
Smith J → Javaheri S et al 642
Smith SM → Sepúlveda FV 231
Solyenov EI → Ivanova LN et al 328
Spadavecchia L → Carbone et al 423
Staron RS, Gohlsch B, Pette D: Myosin polymorphism in single fibers of chronically stimulated rabbit fast-twitch muscle 444
Stefani E → Garcia J 646
Stefani E → Toro L 417
Steward MC → Howorth AJ et al 209
Stienen GJM, Laarse WJ van der, Diegenbach PC, Elzinga G: Relation between force and calcium ion concentration in different fibre types of the iliofibularis muscle of *Xenopus laevis* 63
Streit J, Lux HD: Voltage dependent calcium currents in PC12 growth cones and cells during NGF-induced cell growth 634
Suominen H → Kovanen V 543
Svelto M → Casavola V et al 318

Taniguchi J → Yoshitomi K et al 600
Terada K → Ohya Y et al 80
Terada K, Kitamura K, Kuriyama H: Blocking actions of Ca^{2+} antagonists on the Ca^{2+} channels in the smooth muscle cell membrane of rabbit small intestine 552
Terada K, Kitamura K, Kuriyama H: Different inhibitions of the voltage-dependent K^+ current by Ca^{2+} antagonists in the smooth muscle cell membrane of rabbit small intestine 558
Theis J → Gitter AH 194
Thomas D → Harris PJ et al 615
Thompson CS → Jeremy JY et al 68
Toro L, Stefani E: Ca^{2+} and K^+ currents in cultured vascular smooth mucle cells from rat aorta 417
Totsuka T → Saeki Y et al 578
Trube G → Ohno-Shosaku T et al 133
Tuček S, Doležal V, Folbergrová J, Hynie S, Kolář F, Ošťádal B: Pertussis toxin inhibits negative inotropic and negative chronotropic muscarinic cholinergic effects on the heart 167

Ullrich KJ, Rumrich G, Fritzsch G, Klöss S: Contraluminal para-aminohippurate (PAH) transport in the proximal tubule of the rat kidney. II. Specificity: Aliphatic dicarboxylic acids 38

Van de Werf F → Minten J et al 160
Verkman AS → Chen P-Y 491
Vermeulen-van der Zee E → Hie HB et al 333
Vinegar A → Javaheri S et al 642

Walsh DA → Carlsen RC 224
Walsh Jr JV → Singer JJ 98
Walsh Jr JV, Singer JJ: Identification and characterization of major ionic currents in isolated smooth muscle cells using the voltage-clamp technique 83
Wang W, Dietl P, Oberleithner H: Evidence for Na^+ dependent rheogenic HCO_3^- transport in fused cells of frog distal tubules 291
Wangemann P → Wittner M et al 54
Watanabe T → Morimoto A et al 414
Weigt M, Dietl P, Silbernagl S, Oberleithner H: Activation of luminal Na^+/H^+ exchange in distal nephron of frog kidney. An early response to aldosterone 609
Wiemer J → Meyer R et al 390
Wills NK → Clauss W et al 592
Wilson N → Rankin AJ et al 124
Windhorst U, Koehler W, Schwarz C: Event-related cross-correlations between spike trains illustrated on interactions between motor units and muscle spindle afferents 196
Winnikes K → Kawai M et al 1
Wittner M, Di Stefano A, Wangemann P, Delarge J, Liegeois JF, Greger R: Analogues of torasemide – structure function relationships – experiments in the thick ascending limb of the loop of Henle of rabbit nephron 54

Yamanaka K, Kitamura K, Kuriyama H: Effects of neurotensin on electrical and mechanical properties of smooth muscles in longitudinal and circular layers of the guinea-pig ileum 10
Yanagisawa K → Saeki Y et al 578
Yoshimura M, Polosa C, Nishi S: A transient outward rectification in the cat sympathetic preganglionic neuron 207
Yoshitomi K, Koseki C, Taniguchi J, Imai M: Functional heterogeneity in the hamster medullary thick ascending limb of Henle's loop 600
Young JA → Pirani D et al 178

Zelenina MN → Ivanova LN et al 328
Zeuthen T → Christensen O 249
Zeuthen T: The effects of chloride ions on electrodiffusion in the membrane of a leaky epithelium. Studies of intact tissue by microelectrodes 267
Zeuthen T, Christensen O, Bærentsen JH, Cour M la: The mechanism of electrodiffusive K^+ transport in leaky epithelia and some of its consequences for anion transport 260
Zeuthen T, Christensen O, Cherksey B: Electrodiffusion of Cl^- and K^+ in epithelial membranes reconstituted into planar lipid bilayers 275
Zobel K → Peiper U 373
Zünkler BJ → Ohno-Shosaku T et al 133

Indexed in *Current Contents*